



## SEQUENCE LISTING

<110> Inouye, Roger T.  
Torres-Viera, Carlos  
Moellering, Robert  
Gold, Howard  
Eliopoulos, George M.

<120> METHODS AND COMPOSITIONS FOR RESTORING ANTIBIOTIC SUSCEPTIBILITY  
IN GLYCOPEPTIDE-RESISTANT ENTEROCOCCUS

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<141> 2000-08-11

<150> US 60/149,313

<151> 1999-08-17

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<213> Enterococcus faecium	
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<400> 18

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tgtatag	aca	agtctgagat	tgaccttgcc	atattggaca	tcattgcttcc	cggcacaagc	180
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acgaagc	cct	ttcgccact	ggagttaatt	gctcgggtaa	aggcccagtt	gcgccgatac	360
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attaatg	tta	acacccatga	gtgttatctg	aacgagaagc	agttatccct	tactcccacc	480
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ctatttt	catg	agatatgggg	cgacgaatat	ttcagcaaga	gcaacaacac	catcaccgtg	600
catatcc	ggc	atgtgcgca	aaaaatgaac	gacaccattg	ataatccgaa	atatataaaa	660
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<210> 19

<211> 1155

<212> DNA

<213> Enterococcus faecium

<400> 19

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atccgaggga	aacttgggga	ttggatctta	agtatttttg	aaaacaaata	tgacttaaat	180
cacctggacg	cgatgaaatt	atatcaatat	tccatacggg	acaatataga	tatctttatt	240
tatgtggcga	ttgtcattag	tattcttatt	ctatgtcgcg	tcattgcttcc	aaaattcgca	300
aaatactttg	acgagataaa	taccggcatt	gatgtactta	ttcagaacga	agataaacia	360
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aaaaggaggt	cctaa					1155

<210> 20

<211> 969

<212> DNA

<213> Enterococcus faecium

<400> 20

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aacgccaaat	ccgcgccttt	caatcaatgt	atcagtgtgg	gacataaatc	agagatttcc	180
gcctctattc	ttcttgcgct	gaagagagcc	gggtgtgaaat	atatttctac	ccgaagcatc	240
ggctgcaatc	atatagatac	aactgctgct	aagagaatgg	gcatcactgt	cgacaatgtg	300
gcgtactcgc	cggatagcgt	tgccgattat	actatgatgc	taattcttat	ggcagtagcc	360

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ttgcgtgata	ccgttgaaaa	aaccattaaa	aactgtttgg	atthttgaaag	gagacaggag	960
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<210> 21

<211> 1032

<212> DNA

<213> Enterococcus faecium

<400> 21

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gtaaaatctg	caatagagat	agccgctaac	attaataaaag	aaaaatacga	gccgttatac	120
attggaatta	cgaaatctgg	tgtatggaaa	atgtgcgaaa	aaccttgccg	ggaatgggaa	180
aacgacaatt	gctattcagc	tgtactctcg	ccggataaaa	aaatgcacgg	attacttggt	240
aaaaagaacc	atgaatatga	aatcaaccat	gttgatgtag	cattttcagc	tttgcattggc	300
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aaaaatgctg	ggatagctac	tcccgccttt	tgggttatta	ataaagatga	taggccggty	480
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aaagcgctcy	gctgtagagg	tctagcccgt	gtggatatgt	ttttacaaga	taacggccgc	900
attgtactga	acgaagtcaa	tactctgccc	ggtttcacgt	catacagtcy	ttatccccgt	960
atgatggccy	ctgcagggtat	tgcacttccc	gaactgattg	accgcttgat	cgtattagcy	1020
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<210> 22

<211> 609

<212> DNA

<213> Enterococcus faecium

<400> 22

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gtagggacat	acgagttggc	tgaatcgctt	ttgaaggcaa	aagaactggc	tgctacccaa	180
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caatgggctg	cacagccgga	aaataacctg	acaaaggaaa	gttattatcc	caatattgac	300
cgaactgaga	tgatttcaaa	aggatacgtg	gcttcaaaa	caagccatag	ccgcggcagt	360
gccattgatc	ttacgcttta	tcgattagac	acgggtgagc	ttgtaccaat	ggggagccga	420
tttgatttta	tggatgaacg	ctctcatcat	gcggcaaatg	gaatatcatg	caatgaagcy	480
caaaatcgca	gacgtttgcy	ctccatcatg	gaaaacagty	ggtttgaagc	atatagcctc	540
gaatggtygc	actatgtatt	aagagacgaa	ccatacccca	atagctatth	tgatttcccc	600

<210> 23  
 <211> 912  
 <212> DNA  
 <213> Enterococcus faecium

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 gaacagggtt atcaaggaaa tctgctatta atcaatagta aatatcctgt tcgccaagaa 240  
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 aatgatgctg taaaggggtg cgttagtc atttattatta atagtggcta tcgagacttt 420  
 gatgagcaaa gtgtgcttta ccaagaaatg ggggctgagt atgccttacc agcagggttat 480  
 agtgagcata attcagggtt atcactagat gtaggatcaa gcttgacgaa aatggaacga 540  
 gccctgaag gaaagtggat agaagaaaat gcttggaaat acgggttcat ttacggttat 600  
 ccagaggaca aaacagagtt aacaggaatt caatatgaac catggcatat tcgctatggt 660  
 ggtttaccac atagtgcgat tatgaaagaa aagaatttcg ttctcgagga atatatggat 720  
 tacctaaaag aagaaaaaac catttctggt agtgtaaagt gggaaaaata tgagatcttt 780  
 tattatcctg ttactaaaaa taccaccatt catgtgccga ctaatcttcg ttatgagata 840  
 tcaggaaaca atatatagcg tgtaattgtg acagtgtttc ccggatcaac acatactaata 900  
 tcaaggaggt aa 912

<210> 24  
 <211> 486  
 <212> DNA  
 <213> Enterococcus faecium

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 aacttgactc catttactgc tactgggaat ttcagagaga tgatagataa tgttataatc 180  
 tttattccat ttggcttgct ttggaatgct aatttttaaag aaatcggatt ttacctaag 240  
 tttgcttttg tactggtttt aagtcttact tttgaaataa ttcaatttat cttcgctatt 300  
 ggagcgacag acataacaga tgtaattaca aatactgttg gaggctttct tggactgaaa 360  
 ttatatgggt taagcaataa gcatatgaat caaaaaaat tagacagagt tattattttt 420  
 gtaggtatac ttttgctcgt attattgctc gtttaccgta cccatttaag aataaattac 480  
 gtgtaa 486

<210> 25  
 <211> 19  
 <212> DNA  
 <213> Enterococcus faecium

<400> 25  
 cgaataccgc aagcgacag 19

<210> 26  
 <211> 663  
 <212> DNA  
 <213> Enterococcus faecium

<400> 26

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tttttggctg	aagcaagata	tgaggtggat	gcctgcacag	atggaaacga	agcacacacc	120
aagttctatg	aaaacaccta	tcaactgggt	attcttgata	ttatgctgcc	cggatatgaat	180
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tatgactttg	acggtgatgg	cagcacagtc	cacactcata	tcaaaaatct	gcggggaag	600
ctgccggaaa	atatcatcaa	aaccatccgc	ggtgtagggt	accgattgga	ggaatcatta	660
taa						663

<210> 27

<211> 1344

<212> DNA

<213> *Enterococcus faecium*

<400> 27

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cttgtcggtg	taacggcaac	actgtttgca	cagcaatttg	tgtcttattt	cagagcgatg	120
gaagcacagc	aaacagtaaa	atcctatcag	ccattggtgg	aactgattca	gaatagcgat	180
aggcttgata	tgcaagaggt	ggcagggctg	tttactaca	ataaccaatc	ccttgagttt	240
tatattgaag	ataaagaggg	aagcgtactc	tatgccacac	cgaatgccga	tacatcaa	300
agtgttaggc	ccgactttct	ttatgtggta	catagagatg	ataatatttc	gattgttgct	360
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<210> 28

<211> 807

<212> DNA

<213> *Enterococcus faecium*

<400> 28

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aaagaacagg	gagatgaaca	ggaatggagc	ctgatttttag	tgaacaggca	gaaccccatc	300
cccgccagct	acgatgtgga	acttgagcag	ctgtcaaagt	gtgagcggat	agacattcgg	360
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gtcgcacccg	gataccggac	aacagaaaaa	cagcaagaaa	tcatggatga	aaaagtcgcc	480
gaatacaagg	cgaaaggcta	cacctctgca	caggctaaag	cggaagcaga	aacttggggtg	540
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cattaccgat	atgtcggcat	cgaagctgcc	acaaagatat	accaccaagg	gctttgcctt	780
gaggaatatt	taaacacaga	aaaatga				807

<210> 29

<211> 972

<212> DNA

<213> Enterococcus faecium

<400> 29

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gacaacgcaa	aattggccgc	tggcaatcaa	tgcattagcg	taggccataa	gtccgagggt	180
tccgaggcga	caattcttgc	gctgagaaag	gtcggggtaa	aatacatttc	taccgcgagc	240
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<210> 30

<211> 1029

<212> DNA

<213> Enterococcus faecium

<400> 30

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atcggaatta	caaaaaacgg	cgtatggaag	ctatgcaaga	agccatgtac	ggaatgggaa	180
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aatgcgggca	tcgccgtccc	cgaatttcaa	atgattgaaa	aagggtgaaa	accggaggcg	480
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gttctaaacg	aggtaatac	cctgcccggt	tttaccatcgt	acagccgcta	tccacgcatg	960
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gagaggtga						1029

<210> 31  
 <211> 609  
 <212> DNA  
 <213> Enterococcus faecium

<400> 31						
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cgagccgagt	tgattacaaa	gggctatgtg	gcctcacaat	ccagccatag	ccgtggaagc	360
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<210> 32  
 <211> 828  
 <212> DNA  
 <213> Enterococcus faecium

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ggagaaaaaa	cgcttcccta	tttgctcttt	gaaacggatt	gtgcgttata	caaccacaat	180
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accttaaacy	gcctattgat	aaaaccgggg	gaaacctttt	ctttctggcg	gctggtacgc	300
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accatgtcgg	gcggcgggat	gtgccagatg	agcaatttac	tattttgggt	gttcctgcat	420
acgccattga	caattatcca	gcgcagcggg	cacgtagtaa	aggagtcttc	agagccaaac	480
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cagtatgtcc	gtgaaagtgg	cgggatttat	gaatatgcca	aggttgaacg	gatgcaagtt	720
gccttaggta	ccgggggaaat	aatagattgc	aagctgcttt	atacaaacia	atgcaaaatc	780
tgctatcccc	tcccggaaag	tgtggatatt	caggaggcga	accaatga		828

<210> 33  
 <211> 1053  
 <212> DNA  
 <213> Enterococcus casseliflavus

<400> 33

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cgacaagaca	cgtggttgtt	ggatacga	cataaacaga	aaatacagcc	gctattcgaa	240
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ctgccttatg	taggctgcgg	ggtggcaggt	tctgccttat	gtatgaacaa	atggctgctg	420
catcaagctg	cagcagccat	tggcgtacaa	agtgtccta	cgattctctt	gacaaatcaa	480
gccaaccagc	aagaacaaat	cgaagctttt	atccagaccc	atggcttccc	agttttcttt	540
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gcttctgcct	taaaagaagc	ctttacttat	tgttccgcag	tgctcttaca	aaaaaatatt	660
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tcccgtatc	ctgccatgat	ggcagcggtc	ggcttatcct	atcaagaact	actacaaaaa	1020
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<210> 34

<211> 699

<212> DNA

<213> *Enterococcus faecium*

<400> 34

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tatctgaaaa	acgatggata	taccgtttat	aaattttata	atggcaagga	tgactaaaag	120
tgtattgaat	ccgtggaact	ggatttagcc	atattggata	tcattgcttc	ggatgtagac	180
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gcgcataatc	ggcggctccg	ggagaaaatg	aaggaaccgt	caagaaatcc	gaaatttata	660
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<210> 35

<211> 1146

<212> DNA

<213> *Enterococcus faecium*

<400> 35

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tccgttaaaa	tactgcttat	gatggtatat	tccattctga	ttattgcggg	tgtttatctg	120
tttatcttaa	aagataattt	tgcaaatgtc	gtggtagcca	ttttagacag	ctttatctat	180
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actgccca	gcgaaaatgg	tatcaccagt	tttgaggtta	cattgcccg	cgtaggaaaa	1140
tcgtaa						1146

<210> 36

<211> 1071

<212> DNA

<213> Enterococcus faecium

<400> 36

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aaaagaaaat	tgctttttta	cagggctgca	tgtgtcacac	tttgtttgct	cattgtttct	120
gtaatctttg	gagttgtgca	ttttttaggg	gagagtaaag	atcccggcct	tttatccaaa	180
gaaaacacaa	aaacagacaa	gaactattcg	tggcttaccg	acgatcagaa	tgaggcagta	240
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tctgcagcgg	tgatggacgg	agaaacctat	atctgtgtag	ttatgggttc	tacaaaggaa	1020
agcagggtttc	aggacagcgt	tgatattttta	gataaaatca	aagcccagta	a	1071

<210> 37

<211> 969

<212> DNA

<213> Enterococcus faecium

<400> 37

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agcaatgctg	gattagctaa	tggatgccgg	tgtgtaagcg	taagccataa	agcggagcta	180
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cgcggaagag	aactgcggga	tatgaccgtg	ggtgtgttag	gaactgggcg	aatcggacag	480
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<210> 38

<211> 1032

<212> DNA

<213> Enterococcus faecium

<400> 38

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attggaatca	caaaatccgg	cgtttggaag	atgtgtgaaa	aaccttgttt	ggagtgggaa	180
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<210> 39

<211> 609

<212> DNA

<213> Enterococcus faecium

<400> 39

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